

THE DAILY JOURNAL.

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NEW SUB-MARINE MACHINE.—Maj. Sears, formerly of the army, has invented a machine for sub-marine explorations and labor, that will cast the old diving bell entirely aside. Experiments have been made with it that fully test its utility. It is called the Nautilus, and is described as a cast-iron globe, in shape of a balloon, about ten feet diameter and seven feet high, and weighs about ten tons. There are two trap doors—one at the top for entrance of the divers, and one at the bottom, opening upwards, which admits the workman to the bottom of the sea or river, to do his work. It is supplied with air through a hose capable of sustaining a pressure of air of 200 lbs. to the inch, enough to lift the sub-marine bell, and whatever may be taken into it from the bottom to the surface, is made light and movable under water by the force of the air in the machine itself and side chambers. It will accommodate ten or twelve persons at once, and four or five can conveniently work together in it. A large party assembled at the Navy Yard in New York, last week, to witness and take part in some experimental operations. One hundred and sixty of the party went down during the operation, forty of whom were ladies, and among them was the representative of the New York Herald, who was accompanied by gentlemen and two ladies. He describes the operations and capacity of the machine as follows:

After entering and closing the top of the machine, water valves are opened, which cause the Nautilus to sink; air is taken into the working chamber until its density is equal to that of the water without; the door of the bottom is then raised in order to move upon the ground. The operators step upon the bottom and carry the machine with them. To lift stone, a hook placed on the bottom is affixed to the stone, condensed air is then thrown into the water chambers, and the water is expelled until the weight of the stone is overcome. It is then moved in any direction, and by the readmission of water, is again deposited.

In one of the experiments we saw performed, a stone weighing five tons was lifted, moved horizontally between twenty and thirty feet, and then deposited. The time occupied in going under water, bringing the stone to the surface (22 feet), then moving, going down and depositing, returning again to the surface, was only nine and a half minutes. The Nautilus will lift 3,500 cubic feet of stone per diem, at a cost of \$35, being less, according to the opinion of engineers, than the cost of the same work upon terra firma. The average cost of sub-marine constructions is 16 1/2 cents the cubic foot, whilst with the Nautilus, as demonstrated yesterday, it is but one cent. All other works are in like proportion; the blasting of rocks may be done by it as cheaply as in a quarry. Its adaptability to the examination of ships' bottoms, to determine the necessity of docking, will offset the saving of hundreds of thousands of dollars annually. Its utility in pearl, coral and sponge-fishing was remarkably demonstrated. A gentleman largely engaged in pearl operations in the Pacific observed that there was no limit to its value for that purpose. Pearl shells may be gathered by it at the rate of from two to three tons per day to each machine; this has been proved by actual experiment in Panama and California. Shells, according to prices current, are worth from \$150 to \$500 a ton.

With regard to lifting submerged vessels, the capacity of the pump demonstrates that the largest class of ships may be raised within three hours after attachment is made.

A MONSTER SHARK.—The New Orleans Picayune, tells the following:
Some days ago the captain of a ship at anchor outside the Pass, threw overboard a shark hook baited, not expecting in the least, was the captain himself, to catch anything of the fish tribe. There was hooked, however, a shark of the spotted kind, and, as it afterwards proved, a regular "man eater." He had to be harpooned before his capture could be effected. His size and weight may be imagined from the fact that it took to hoist him eleven men, with a double lift on the main-yard.

The monster measured seventeen feet eleven inches in length from tail to snout, and nine inches in circumference. He had seven rows of teeth, three of the rows being almost hidden in the upper gums. His liver exactly filled up a beef barrel.

In his paunch was found a body of a man in a half decomposed state. So far as could be judged, the corpse was that of a well-dressed man, of medium size—short white, with pearl buttons, coarse silk under shirt, cotton socks, and shoes nearly new, of the Congress gaiter kind.

The shark had also in his stomach several pieces of old canvas, such as are used by vessels on their rigging.

The jawbone of this sea pirate has been brought up to the city. It is large enough to take in a sugar barrel.

Desolation of Palestine.

In Palestine you are nearly as much in the wilderness as when in Arabia; for as to inhabitants, they are precisely the things which do not exist, for all you can tell, except in the towns and villages you pass through. You ride on day after day, and you rise over each

hill, and you sink into each valley, and except an occasional solitary traveler with his servant and his mule, or a Turkish official with his party, rarely does a moving object appear upon the landscape. No cattle are on the land, and no passengers are on the highways. How lonely it is that this loneliness strikes you more like that of the desert, for it seems unnatural, because here there should be life, and there is none. Sometimes you may make out at a distance on the hill-side a single figure of a man upon a donkey. It is the only moving thing your eye can detect all round. And so you go on through this desolate land. From Jerusalem to Beyrout you scarcely light upon one single scene of rural industry—not one single scene of life that can be compared with those on the Arab pastures from the top of Jabel el Sufar to the wells of el Mieh. There, in places, the country was full of people and children, and flocks and herds—a rejoicing picture of pastoral existence in all its abounding wealth; while here, in the country of tillage, and towns, and villages, the whole land seemed to lie under a spell.

IS THE SUN INHABITED?—Sir David Brewster states that so strong has been the belief that the sun cannot be a habitable world, that a scientific gentleman was pronounced by his medical attendant insane, because he had sent a paper to the Royal Society, in which he maintained that the light of the sun proceeded from a dense and universal aura, which may afford ample light to the inhabitants beneath, and yet be at such a distance aloft as not to be among them; that there may be water and dry land there, hills and dales, rain and fair weather, and that as the light and season must be eternal, the sun may easily be conceived to be by far the most blissful habitation of the whole system. In less than ten years after this apparently extravagant notion was considered as a proof of his insanity, it was maintained by Sir William Herschel as a rational and probable opinion, which might be deduced from his own observations on the structure of the sun.

NEW GOODS AND NEW PRICES.
SHANKLIN & RILEY beg to call the attention of their friends and customers to their large and well-assorted stock of new spring and summer dry goods, ready-made clothing, and all the latest fashions, which they have just received from the manufacturers in New York and Philadelphia. Their stock is equal to that of the water without; the door of the bottom is then raised in order to move upon the ground. The operators step upon the bottom and carry the machine with them. To lift stone, a hook placed on the bottom is affixed to the stone, condensed air is then thrown into the water chambers, and the water is expelled until the weight of the stone is overcome. It is then moved in any direction, and by the readmission of water, is again deposited.

MECHANICAL WORKS.
FOUNDRY AND MACHINE SHOP.
EVANSVILLE, IND.
WILLIAM B. BELL & CO.,
HAYING purchased Mr. Henry Schiller's well known Reaping Machine, which would be a valuable addition to any farm. It is a new and improved model, and will cut and bind grain as fast as a man can feed it. It is a new and improved model, and will cut and bind grain as fast as a man can feed it. It is a new and improved model, and will cut and bind grain as fast as a man can feed it.

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FRESH AND FINE.
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PINE LUMBER AND SHINGLES.
R. H. BENNETT would respectfully announce to the citizens of Evansville and vicinity, that he has just received a large and well-assorted stock of pine lumber and shingles, and will cut and bind grain as fast as a man can feed it. It is a new and improved model, and will cut and bind grain as fast as a man can feed it.

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The new and comfortable rooms at the new hotel, near the Court House, Evansville, Ind.

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